

10/542,722

## EAST Search History

| Ref # | Hits | Search Query   | DBs                             | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---------------------------------|------------------|---------|------------------|
| L1    | 5    | ((("20040142843") or ("6800775") or ("6242405") or ("6828293") or ("6825162")).PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | OFF     | 2006/03/21 17:02 |
| L2    | 277  | (556/32).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | OFF     | 2006/03/21 17:20 |

10/342,722

(FILE 'HOME' ENTERED AT 15:51:39 ON 21 MAR 2006)

FILE 'REGISTRY' ENTERED AT 15:51:53 ON 21 MAR 2006

L1 STRUCTURE UPLOADED  
L2 0 S L1  
L3 7 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:52:53 ON 21 MAR 2006

L4 17 S L3

=> d 1-17 bib abs

L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:695643 CAPLUS

DN 143:175181

TI Bleaching activation catalyst granules with good solubility for bleaching compositions

IN Miyasaki, Yoshitaka; Kaneda, Hideyuki

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 50 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|----------------|------|----------|-----------------|----------|
| JP 2005206835  | A2   | 20050804 | JP 2004-375329  | 20041227 |
| JP 2003-435633 | A    | 20031226 |                 |          |

AB Title granules comprise (A) bleaching activation catalysts having transition metal complex structures 0.1-50, (B) surfactants 0.1-50, and (C) binder compds. 10-90%, wherein the content of transition metals which do not form complexes containing bleaching activation catalysts is  $\leq 0.1\%$  (based on bleaching activation catalyst). Thus, 48.7 g tris(2-aminoethyl)amine and 121.9 g salicylaldehyde were reacted to give tris(salicylideneaminoethyl)amine, 100 g of which was reacted with 0.18 mmol manganese chloride tetrahydrate, the resulting tris[2-(salicylideneaminoethyl)]amine-manganese complex was pulverized, 20 g of the resulting complex was mixed with 23 mg manganese chloride, 10 g of the mixture was mixed with Lipolan PJ 400 10, Arbocel FD 600/30 10, and PEG 60000 70% and kneaded to give a bleaching activation catalyst granule with average particle diameter 250  $\mu\text{m}$ , 3.0% of which was mixed with SPC-Z (sodium percarbonate) 50.0, NRE 5 (ethoxylated alc.) 1.5, Dequest 2016D 0.5, Everlase 8.0T 0.4, a bleaching activation catalyst granule with average particle diameter 700  $\mu\text{m}$  1, perfume 0.1, white carbon 0.2, and zeolite 3%, and balance sodium carbonate to give a bleaching composition, showing good bleaching and storage stability.

L4 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:1056592 CAPLUS

DN 142:306784

TI Crystal structure of N,N,N-tris[2-(salicylideneaminato)ethyl]aminemanganese(III),  $\text{Mn}[\text{N}(\text{C}_9\text{H}_9\text{NO})_3]$

AU Steinhauser, S.; Bachmann, F.; Hazenkamp, M.; Heinz, U.; Dannacher, J.; Hegetschweiler, K.

CS Universitaet des Saarlandes, Anorganische Chemie, Saarbruecken, 66041, Germany

SO Zeitschrift fuer Kristallographie - New Crystal Structures (2004), 219(3), 325-326

CODEN: ZKNSFT; ISSN: 1433-7266

PB Oldenbourg Wissenschaftsverlag GmbH

DT Journal

LA English

AB The title compound is monoclinic, space group  $P2_1/n$ ,  $a$  7.906(2),  $b$  25.609(5),  $c$  11.736(2)  $\text{\AA}$ ,  $\beta$  96.55(3) $^\circ$ ,  $Z$  = 4,  $R_{\text{gt}}(F)$  = 0.050,  $wR_{\text{ref}}(F_2)$  = 0.127,  $T$  = 293 K. Atomic coordinates are given. The title compound Mn compound and its MeOH solvated derivative (S.K. Chandra et al 1991) crystallize in the monoclinic space group  $P2_1/n$ , however, the volume of the unit cell of the solvent-free derivative is 9.6 % smaller. No

significant differences have been noted for the coordination geometries of the two complex mols. Bond valence parameters confirm the proposed oxidation number of +III for the Mn center. As previously noted, the considerable deviation from C3 symmetry must be attributed to a Jahn-Teller distortion of the high-spin Mn center. N(1) has a flattened trigonal pyramidal environment with C-N-C angles of 115.1, 117.4, 118.0°, and the lone pair directed to the Mn center. The N...N distances of the MnN3O3 core (3.14, 3.23, 3.45 Å) are significantly longer than the O...O distances (2.73, 3.28, 3.00 Å). However, the very long N(1)-Mn distance of 3.19 Å indicates very weak - if any - interaction, and the coordination polyhedron may be best described as a distorted octahedron.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:1037213 CAPLUS  
DN 142:24931

TI Stable particulate composition comprising bleach catalysts, their preparation, use with detergent in the wash, and preventing redeposition of dyes

IN Hazenkamp, Menno; Kvita, Petr; Nagel, Johannes; Bertram, Heinz-Udo; Dreyer, Pierre; Weingartner, Peter

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2004104155   | A1   | 20041202 | WO 2004-EP50766 | 20040512 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |

|   |    |          |                |          |
|---|----|----------|----------------|----------|
| EP 1625196  | A1 | 20060215 | EP 2004-732327 | 20040512 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK |    |          |                |          |

PRAI EP 2003-101450 A 20030521  
EP 2004-100105 A 20040115  
WO 2004-EP50766 W 20040512

OS MARPAT 142:24931

AB The particulate compns., especially granules, comprise finely particulate bleach catalysts, alkali metal and/or alkaline earth metal and/or Al salts, water-soluble binders having sealing properties, and H2O.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:1014366 CAPLUS  
DN 141:425600

TI Bleach composition containing peroxide and bleaching detergent composition safe to dyed fabrics

IN Nagata, Satoshi; Kaneda, Hideyuki

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 50 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI JP 2004331816 A2 20041125 JP 2003-129507 20030507  
 PRAI JP 2003-129507 20030507  
 AB The bleach composition comprises: (a) a water-soluble H2O2-generating peroxide compound, e.g., percarbonate, (b) a fibrous powder insol. or slightly soluble in water which is selected from among powdered cellulose, silk powder, wool powder, nylon powder, and polyurethane powder, (c) a bleaching activating catalyst or/and activator, and (d) ordinary surfactants and additives.

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:996291 CAPLUS  
 DN 141:425597  
 TI Bleach composition containing peroxide and bleaching detergent composition safe to dyed fabrics  
 IN Kaneda, Hideyuki; Miyamae, Yoshitaka; Nagata, Satoru  
 PA Lion Corporation, Japan  
 SO PCT Int. Appl., 93 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2004099357   | A1   | 20041118 | WO 2003-JP5700  | 20030507 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG<br>AU 2003235871 A1 20041126 AU 2003-235871 20030507<br>EP 1621605 A1 20060201 EP 2003-721053 20030507<br>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, CY, TR, BG, CZ, EE, HU, SK |      |          |                 |          |
| WO 2003-JP5700  | A    | 20030507 |                 |          |

AB The bleach composition comprises: (a) a peroxide capable of generating hydrogen peroxide when dissolved in water, e.g., percarbonate, (b) a fiber powder insol. or slightly soluble in water which is selected from among powdered cellulose, silk powder, wool powder, nylon powder, and polyurethane powder, and (c) (c-1) a bleaching activating catalyst and/or (c-2) a bleaching activator; and a bleaching detergent composition contains the bleach composition and a surfactant.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:633618 CAPLUS  
 DN 141:175880  
 TI Crystalline modification of a manganese complex, its production and its use  
 IN Bachmann, Frank; Baier, Hanspeter; Dosenbach, Christof; Dubs, Marie-josee; Haberer, Tassilo; Hazenkamp, Menno; Heinz, Uwe; Makowka, Cornelia  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO PCT Int. Appl., 28 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| WO 2004065302  | A2   | 20040805 | WO 2004-EP359   | 20040119 |
| WO 2004065302  | A3   | 20041007 |                 |          |
| W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, |      |          |                 |          |

IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC,  
LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX,  
MZ, MZ, NA, NI

EP 1585721 A2 20051019 EP 2004-703163 20040119  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRAI EP 2003-405032 A 20030124  
WO 2004-EP359 W 20040119

AB This invention relates to a novel crystal form of the 1:1 manganese(III) complex (I) of N,N',N''-tris(salicylideneaminoethyl)amine, a process for its preparation and its use as a peroxide bleach activator/catalyst. Thus, ethanolic salicylaldehyde was condensed with tris(2-aminoethyl)amine in the presence of NaOH and Mn(III) salt to give I, which was used as a seed crystal for production of more I in DMF to provide the new crystal form.

L4 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:348450 CAPLUS

DN 142:137100

TI Laundry detergent composition containing a transition metal bleaching catalyst

AU Anon.

CS USA

SO IP.com Journal (2004), 4(2), 33 (No. IPCOM000021652D), 29 Jan 2004

CODEN: IJPOBX; ISSN: 1533-0001

PB IP.com, Inc.

DT Journal; Patent

LA English

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

|    |           |          |  |  |
|----|-----------|----------|--|--|
| PI | IP 21652D | 20040129 |  |  |
|----|-----------|----------|--|--|

PRAI IP 2004-21652D 20040129

AB Detergent and bleaching laundry additive compns. are disclosed comprising 1:1 manganese(III) of N,N',N''-tris[salicylideneaminoethyl]amine.

L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:470750 CAPLUS

DN 139:54605

TI Bleach compositions for garment with reduced fabric degradation

IN Kaneda, Hideyuki; Miyasaki, Yoshitaka

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

|    |               |    |          |                |          |
|----|---------------|----|----------|----------------|----------|
| PI | JP 2003171697 | A2 | 20030620 | JP 2002-250734 | 20020829 |
|----|---------------|----|----------|----------------|----------|

PRAI JP 2001-295882 A 20010927

AB The compns. contain (A) water-soluble H2O2 generators, (B) water-insol. powdered cellulose, silk, wool, nylon or polyurethane fibers, and (C) bleach activators or/and catalysts where the B is included for improving the stability of fabric to bleach. Thus, a bleaching detergent was obtained from Na percarbonate 50.0, powdered cellulose 20.0, tris(salicylideneiminoethyl)amine-Mn complex, Na2CO3 28.0, a nonionic surfactant 0.5, an enzyme 1.0, and a perfume 0.1%.

L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:239943 CAPLUS

DN 138:273330

TI Bleaching compositions with good hydrogen peroxide stability

IN Kaneda, Hideyuki; Miyasaki, Yoshitaka

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

|      |                |    |          |                |          |
|------|----------------|----|----------|----------------|----------|
| PI   | JP 2003089800  | A2 | 20030328 | JP 2002-190449 | 20020628 |
| PRAI | JP 2001-208399 | A  | 20010709 |                |          |

OS MARPAT 138:273330

AB Title compns. comprise (A) hydrogen peroxide or peroxide compds. giving hydrogen peroxide when dissolved in water, (B) phenolic radical trapping agents, (C) phosphonic acid type metal captures, and (D) bleaching activation catalysts comprising transition metals and ligands  $B(CR1H)nX[(CR2H)mA]p$ , wherein  $p = 0-2$  integer;  $X = R$  when  $p = 0$ ,  $X = R'$  when  $p = 1$ , or  $X = N, P, CR$  when  $p = 2$ ;  $R, R1, R2 = H$ , (substituted) alkyl, cycloalkyl, or aryl;  $R' =$  (substituted) alkylene or cycloalkylene;  $n, m = 0-2$  number;  $A, B = NR3R4$  or  $N:R5$ ;  $R3, R4 = H, OH$ , alkyl, cycloalkyl, aryl, or benzyl, and alkyl, cycloalkyl, aryl, and benzyl group may be substituted with  $OH$ , halogen, phosphonic acid, carboxylic acid, C1-3 alkyl or aryl; and  $R5 =$  alkylidene, cycloalkylidene, or benzylidene, and alkylidene, cycloalkylidene, and benzylidene may be substituted with  $OH$ , halogen, phosphonic acid, carboxylic acid, C1-3 alkyl or alkoxyl substituted dialkylamino, or C1-3 alkyl or aryl. Thus, a composition comprised 35% hydrogen peroxide 5.0, MQ-F 4-methoxyphenol 0.2, Briquest ADPA 1-hydroxyethane-1,1-diphosphonic acid 1.0, [tris(salicylideneiminoethyl)amine] manganese (preparation given) 20.0, polyethylene glycol alkyl ether 4.5, linear alkyl benzene sodium sulfonate 0.5, C14  $\alpha$ -olefin potassium phosphonic acid 1.0, and perfume composition 0.1%, and sodium hydroxide and water.

L4 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:575181 CAPLUS

DN 137:126840

TI Process for the preparation of water-soluble granules or particles of saldimine-type manganese complexes useful for washing agents

IN Hazenkamp, Menno; Grey, Bryan David; Mistry, Kishor Kumar; Bachmann, Frank; Dannacher, Josef; Symes, Kenneth Charles; Kvita, Petr; Maier, Susanne

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---|------|----------|------------------|----------|
| PI   | WO 2002059245   | A1   | 20020801 | WO 2002-EP512    | 20020118 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                  |          |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                  |          |
| EP   | 1354025   | A1   | 20031022 | EP 2002-703562   | 20020118 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR   |      |          |                  |          |
| BR   | 2002006673  | A    | 20040113 | BR 2002-6673     | 20020118 |
| CN   | 1518590   | A    | 20040804 | CN 2002-804218   | 20020118 |
| JP   | 2004523617  | T2   | 20040805 | JP 2002-559533   | 20020118 |
| TW   | 573010  | B    | 20040121 | TW 2002-91101120 | 20020124 |
| US   | 2004142842  | A1   | 20040722 | US 2004-470046   | 20040311 |
|      | US 6825162  | B2   | 20041130 |                  |          |
| PRAI | EP 2001-810078  | A    | 20010126 |                  |          |
|      | EP 2001-810795  | A    | 20010817 |                  |          |
|      | WO 2002-EP512   | W    | 20020118 |                  |          |

OS MARPAT 137:126840

AB Water soluble granules or particles of saldimine-type manganese complexes that are suitable as catalysts in reactions with peroxy compds. are described. The granules are used especially in washing agent components. They are distinguished by retarded dissoln. of and improved action of the

manganese complexes.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2002:395604 CAPLUS  
DN 138:99869  
TI Synthesis and characterization of a series of chelated complexes  
N(CH<sub>2</sub>CH<sub>2</sub>-O-C<sub>6</sub>H<sub>4</sub>-CH:NCH<sub>2</sub> CH<sub>2</sub>)<sub>3</sub>N  
AU Zhang, Jiang-run; Yang, Xu-jie; Lu, Lu-de; Wang, Xin; Xu, Xing-you  
CS Materials Chemistry Laboratory, School of Chemical Engineering, Nanjing  
University of Science and Technology, Nanjing, 210094, Peop. Rep. China  
SO Huaihai Gongxueyuan Xuebao (2002), 11(1), 45-47  
CODEN: HGXKFX; ISSN: 1008-3499  
PB Huaihai Gongxueyuan Xuebao Bianjibu  
DT Journal  
LA Chinese  
OS CASREACT 138:99869  
AB To study the structure and characterization of transition metal chelate  
complexes, the authors synthesized a new complex by the condensation of  
tren and nitrilotris(ethyloxybenzaldehyde), and prepared corresponding  
transition metal chelate complexes of tren and  
nitrilotris(ethyloxybenzaldehyde) complex by replacement reaction. The  
complex and the chelate complexes were characterized by elemental anal.,  
FTIR, 1H-NMR, and UV.

L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2001:101267 CAPLUS  
DN 134:164852  
TI Water-soluble granules of salen-type manganese complexes  
IN Hazenkamp, Menno; Bachmann, Frank; Makowka, Cornelia; Kvita, Petr;  
Kuratli, Rolf; Schmidlin, Anita  
PA Ciba Specialty Chemicals Holding Inc., Switz.  
SO PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | WO 2001009276   | A1   | 20010208 | WO 2000-EP6934  | 20000720 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  |      |          |                 |          |
|      | CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,     |      |          |                 |          |
|      | HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,     |      |          |                 |          |
|      | LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,     |      |          |                 |          |
|      | SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,     |      |          |                 |          |
|      | YU, ZA, ZW  |      |          |                 |          |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, |      |          |                 |          |
|      | DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,     |      |          |                 |          |
|      | CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG                  |      |          |                 |          |
|      | EP 1200545  | A1   | 20020502 | EP 2000-954542  | 20000720 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  |      |          |                 |          |
|      | IE, SI, LT, LV, FI, RO, MK, CY, AL                                  |      |          |                 |          |
|      | JP 2003506525   | T2   | 20030218 | JP 2001-514070  | 20000720 |
|      | US 6828293  | B1   | 20041207 | US 2002-48045   | 20020124 |
|      | US 2005085401   | A1   | 20050421 | US 2004-974375  | 20041027 |
|      | US 6982243  | B2   | 20060103 |                 |          |
| PRAI | EP 1999-810684  | A    | 19990728 |                 |          |
|      | WO 2000-EP6934  | W    | 20000720 |                 |          |
|      | US 2002-48045   | A3   | 20020124 |                 |          |

OS MARPAT 134:164852

AB The granules comprising H<sub>2</sub>O-soluble salen-type Mn complexes and ≥10%  
of an anionic or nonionic dispersant or a H<sub>2</sub>O-soluble polymer, e.g.,  
poly(vinyl alc.) Na-CMC, polyvinylpyrrolidone, etc., as dissoln.  
restrainer provide better inhibition of the redeposition of migrating dyēs  
in washing liquors than is provided by pure Mn complexes. The storage  
stability of peroxide-containing washing agent formulations comprising such  
granules is also improved. Washing agent formulations containing anionic  
and/or nonionic surfactants, builders, peroxides and granules described

above are also claimed.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:64115 CAPLUS

DN 134:133329

TI Metal complexes of tripodal ligands as catalysts for peroxygen compounds  
in cleaning and disinfecting

IN Bachmann, Frank; Dannacher, Josef; Hazenkamp, Menno; Schlingloff, Gunther;  
Richter, Grit; Dbaly, Helena; Traber, Rainer Hans

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 39 pp.

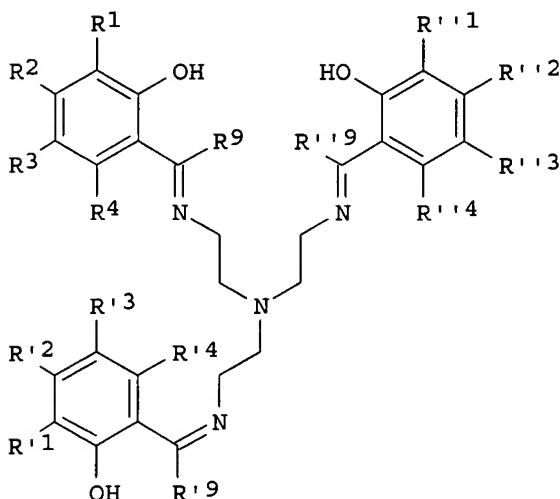
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | WO 2001005925   | A1   | 20010125 | WO 2000-EP6420  | 20000706 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |      |          |                 |          |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
|      | CA 2377279  | AA   | 20010125 | CA 2000-2377279 | 20000706 |
|      | BR 2000012390   | A    | 20020319 | BR 2000-12390   | 20000706 |
|      | EP 1194514  | A1   | 20020410 | EP 2000-947944  | 20000706 |
|      | EP 1194514  | B1   | 20060111 |                 |          |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY   |      |          |                 |          |
|      | JP 2003505349   | T2   | 20030212 | JP 2001-511141  | 20000706 |
|      | AT 315627   | E    | 20060215 | AT 2000-947944  | 20000706 |
|      | US 6800775  | B1   | 20041005 | US 2002-31999   | 20020110 |
| PRAI | EP 1999-810631  | A    | 19990714 |                 |          |
|      | WO 2000-EP6420  | W    | 20000706 |                 |          |
| OS   | MARPAT 134:133329   |      |          |                 |          |
| GI   |   |      |          |                 |          |



I

AB Tripodal ligands I (R<sub>1</sub>-R<sub>4</sub>, R'<sub>1</sub>-R'<sub>4</sub>, R''<sub>1</sub>-R''<sub>4</sub> = H, cyano, halo, S-containing acidic or amide group, ether group, or ester group, R<sub>9</sub>, R'<sub>9</sub>, R''<sub>9</sub> = H, C<sub>1</sub>-8 alkyl, or aryl) and their metal complexes are useful as catalysts to enhance the action of peroxygen compds. in washing, cleaning and



disinfecting processes. A typical I was manufactured by stirring an aqueous emulsion containing 3.42 mmol tris(2-aminoethyl)amine and 10.3 mmol salicylaldehyde 20 h.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:585447 CAPLUS

DN 123:242528

TI Geometric control of manganese redox state

AU Drew, Michael G. B.; Harding, Charles J.; McKee, Vickie; Morgan, Grace G.; Nelson, Jane

CS Sch. Chem., Queens Univ., Belfast, BT9 5AG, UK

SO Journal of the Chemical Society, Chemical Communications (1995), (10), 1035-8

CODEN: JCCCCAT; ISSN: 0022-4936

PB Royal Society of Chemistry

DT Journal

LA English

AB Comparison of the structures of four monomanganese (and one monoiron) complexes of ligands with the identical donor [N3(O-)]<sub>3</sub> set reveals that geometry det. the redox state of the cation. Crystallog. data are given.

L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:439479 CAPLUS

DN 119:39479

TI Mono- and tetra-nuclear manganese(III) complexes of tripodal tris[2-(salicylideneamino)ethyl]amines

AU Chandra, Swapan Kumar; Chakraborty, Partha; Chakravorty, Animesh

CS Dep. Inorg. Chem., Indian Assoc. Cultiv. Sci., Calcutta, 700032, India

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1993), (6), 863-9

CODEN: JCDBTI; ISSN: 0300-9246

DT Journal

LA English

AB Tripodal N[CH<sub>2</sub>CH<sub>2</sub>N:CHC<sub>6</sub>H<sub>3</sub>X(OH)-2]<sub>3</sub> [H<sub>3</sub>L; X = H (H<sub>3</sub>L<sub>1</sub>), Cl-5 (H<sub>3</sub>L<sub>2</sub>)] afford [MnL]. Structural work showed that the symmetry of the facial MnN<sub>3</sub>O<sub>3</sub> coordination sphere in the 2 solvates [MnL<sub>2</sub>].3H<sub>2</sub>O and [MnL<sub>2</sub>].MeOH (I) varies considerably as the former has C<sub>3</sub> and the latter C<sub>1</sub> symmetry. The implications of these differences are discussed. Reaction of [MnL] with Mn(OAc)<sub>3</sub>.2H<sub>2</sub>O in alkaline media affords antiferromagnetic [Mn<sup>III</sup>4O<sub>2</sub>L<sub>2</sub>]<sup>2+</sup> in high yields. X-ray studies on [Mn<sub>4</sub>O<sub>4</sub>L<sub>12</sub>][PF<sub>6</sub>]<sub>2</sub>.4MeCN (II) revealed a centrosym. Mn<sub>4</sub>(μ<sub>3</sub>-O)<sub>28+</sub> core, with the shortest Mn...Mn contact being 2.906(3) Å. The metal coordination spheres are of 2 types: facial-MnN<sub>3</sub>O<sub>3</sub> and MnNO<sub>5</sub>. The cyclic voltammograms of [Mn<sub>4</sub>O<sub>2</sub>L<sub>2</sub>]<sup>2+</sup> display 2 successive waves due to the Mn<sup>III</sup>-Mn<sup>II</sup> couples of the MnN<sub>3</sub>O<sub>3</sub> spheres. For [MnL] only 1 such couple is observed. Oxidative responses due to Mn<sup>IV</sup>-Mn<sup>III</sup> couples are observed. Some preliminary work on an Fe(III) analog of [Mn<sub>4</sub>O<sub>2</sub>L<sub>2</sub>]<sup>2+</sup> is described. Crystal data: I; triclinic, space group P<sub>1</sub>h<sub>1</sub>1<sub>1</sub>, a 9.457(3), b 11.731(3), c 13.153(4) Å, α 80.98(2), β 78.76(3), γ 89.08(2)°, Z = 2, R = 0.0461, R' = 0.0522; II; monoclinic, space group P2<sub>1</sub>/n, a 14.019(7), b 16.165(8), c 15.995(7) Å, β 102.27(4)°, Z = 2, R = 0.0604, R' = 0.0612.

L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:50303 CAPLUS

DN 116:50303

TI Manganese(III) complexes with Mn<sup>II</sup>IN<sub>3</sub>O<sub>3</sub> (S = 2) coordination by sexidentate Schiff base ligands: synthesis, spectra and electrochemistry

AU Ramesh, Krishnamoorthi; Bhuniya, Debnath; Mukherjee, Rabindranath

CS Dep. Chem., Indian Inst. Technol., Kanpur, 208 016, India

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1991), (11), 2917-20

CODEN: JCDBTI; ISSN: 0300-9246

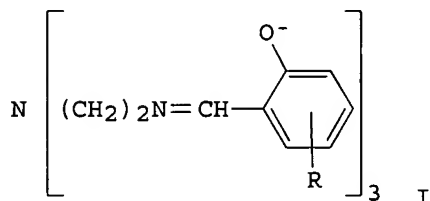
DT Journal

LA English

AB MnL<sub>3</sub>(HL = tris[2-(2'-hydroxybenzylidene)ethyl]amine and its 3-, 4-, 5-methyl-, 3,4-dimethyl- and 3,5-dichloro derivs.) (μ<sub>eff</sub> = 4.79-5.30 at 298 K) have been prepared and their solution properties thoroughly

investigated. The brown to green crystalline complexes display ligand-to-metal charge transfer transitions at 330-400 nm in addition to a crystal field transition at 560-600 nm. The solution stereochem. has been determined by paramagnetically shifted <sup>1</sup>H NMR spectroscopy. Unlike the C<sub>3</sub> symmetry in the solid state structure, in solution the Mn<sup>III</sup>N<sub>3</sub>O<sub>3</sub> coordination sphere is severely distorted (simeq C<sub>1</sub> symmetry). Cyclic voltammetric studies in DMF reveal an irreversible Mn<sup>III</sup>Mn<sup>II</sup> couple (E<sub>pc</sub> -0.62 to -0.05 V vs. SCE) and a quasireversible Mn<sup>IV</sup>-Mn<sup>III</sup> couple (E<sub>f</sub> at +0.42 to +0.86 vs. SCE).

L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1976:601369 CAPLUS  
 DN 85:201369  
 TI Metal(III) compounds of potentially septadentate [N<sub>4</sub>O<sub>3</sub>] ligands derived from tris(2-aminoethyl)amine and salicylaldehydes. I. Preparation of gallium, chromium, manganese, iron, and cobalt compounds, and crystal structure of the iron compound of tris[2-(5-chloro-2-hydroxybenzylidene)ethyl]amine  
 AU Cook, Donald F.; Cummins, Diane; McKenzie, E. Donald  
 CS Chem. Dep., Univ. Sheffield, Sheffield, UK  
 SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1976), (14), 1369-75  
 CODEN: JCDTBI; ISSN: 0300-9246  
 DT Journal  
 LA English  
 GI



AB The potentially septadentate trianionic Schiff base ligands, I (R = H, 3-NO<sub>2</sub>, 3-OMe, 5-Cl, 5-Br, 5-Me, 5-OMe, 5-NO<sub>2</sub>), prepared from N[(CH<sub>2</sub>)<sub>2</sub>NH<sub>2</sub>]<sub>3</sub> and the appropriate substituted salicylaldehyde, reacted with M(III) species (M = Ga Cr, Mn, Fe, Co) to form 1:1 neutral compds. The electronic spectra and magnetic moments of the complexes were determined and some polymorphs and isomorphous series were classified from x-ray powder diffraction patterns. The crystal and mol. structure of FeL (L = I, R = 5-Cl), determined from x-ray diffractometer data, showed that the mol. was essentially a [Fe(O<sub>3</sub>N<sub>3</sub>)] octahedral species lying on a 3-fold crystallog. axis which passes through the Fe and the apical N. The apical N atom was anti-bonding with respect to Fe, being 3.26 Å from Fe and almost coplanar with its 3 C substituents. The H<sub>2</sub>O mols. in the crystal formed a flattened octahedral set about the crystallog. C<sub>3</sub> axis, H-bonded to themselves and to the ligand phenolic O atoms.